

Title (en)
STACKABLE AUTOMATED DRONE CHARGING STATION

Title (de)
STAPELBARE AUTOMATISIERTE DROHNENLADESTATION

Title (fr)
STATION DE CHARGE DE DRONE AUTOMATISEE EMPILABLE

Publication
EP 3533129 A1 20190904 (EN)

Application
EP 16794063 A 20161028

Priority
IB 2016056535 W 20161028

Abstract (en)
[origin: WO2018078424A1] A drone charging station configured to charge at least one drone, the charging station including at least one charging stack comprised of a plurality of base blocks, the at least one charging stack including a first conductor block having a first polarity for electrically engaging with a corresponding first electrode of the at least one drone, and a first drone guiding portion, a second conductor block having a second polarity different from the first polarity for electrically engaging with a corresponding second electrode of the at least one drone, the second conductor block having a second drone guiding portion, and an insulator block positioned between the first conductor block and the second conductor block and having a third drone guiding portion. The first drone guiding portion, the second drone guiding portion and the third drone guiding portion arranged to provide a drone guiding path along the charging stack.

IPC 8 full level
H02J 7/00 (2006.01)

CPC (source: EP US)
B60L 53/12 (2019.02 - US); **B60L 53/14** (2019.02 - US); **B60L 53/30** (2019.02 - US); **B64C 39/024** (2013.01 - US); **B64F 1/362** (2013.01 - US); **B64U 10/14** (2023.01 - EP); **B64U 50/19** (2023.01 - EP); **B64U 50/35** (2023.01 - EP); **H02J 7/00** (2013.01 - US); **H02J 7/0013** (2013.01 - US); **H02J 7/0018** (2013.01 - US); **H02J 7/0042** (2013.01 - EP US); **H02J 7/0044** (2013.01 - US); **H02J 7/0045** (2013.01 - US); **H02J 50/12** (2016.02 - US); **B60L 2200/10** (2013.01 - US); **B64U 50/34** (2023.01 - US); **Y02T 10/70** (2013.01 - EP); **Y02T 10/7072** (2013.01 - EP); **Y02T 90/12** (2013.01 - EP); **Y02T 90/14** (2013.01 - EP)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2018078424 A1 20180503; CN 110100367 A 20190806; CN 110100367 B 20230418; EP 3533129 A1 20190904; EP 3533129 B1 20211020; EP 3533130 A1 20190904; EP 3533130 B1 20200610; US 11190032 B2 20211130; US 11296522 B2 20220405; US 2019245365 A1 20190808; US 2020052512 A1 20200213; WO 2018078588 A1 20180503

DOCDB simple family (application)
IB 2016056535 W 20161028; CN 201780080639 A 20171027; EP 16794063 A 20161028; EP 17794088 A 20171027; IB 2017056701 W 20171027; US 201616344590 A 20161028; US 201716343597 A 20171027